

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions of claims in the application:

**Listing of Claims:**

1. (Previously Presented) In a networked system, a device that is a computer subsystem, comprising:

one or more services executing in the device, each service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the service, wherein the one or more behaviors are described by behavior sentences, wherein the unilateral contract specifies an order of messages that flow in or out of services, wherein the unilateral contract is accepted when an external service promises to perform the unilateral contract according to the order of messages specified in the unilateral contract or when the external service performs the unilateral contract according to the order of messages specified in the unilateral contract, and wherein acceptance of the unilateral contract creates an instance of communication between services.

2. (Original) The device of Claim 1, wherein the one or more services comprise an information service, the information service being capable of producing a customizable, tag-based document for describing the capabilities of the device.

3. (Original) The device of Claim 1, wherein the one or more services comprise a data service, the data service being capable of storing input/output events generated by the device and further being capable of responding to queries regarding the input/output events.

4. (Previously Presented) The device of Claim 1, further comprising a network device driver that enables communication between services.

5. (Original) The device of Claim 1, further comprising a decentralized operating system on which the one or more services are executed.

6. (Previously Presented) In a networked computer system, a terminal service comprising:

a display service with a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the display service, wherein the one or more behaviors associated with a service are described by behavior sentences, wherein the unilateral contract is accepted when an other service promises to perform the unilateral contract in accordance with the one or more behaviors or when the other service performs the unilateral contract in accordance with the one or more behaviors, and wherein acceptance of the unilateral contract creates an instance of communication between the display service and another service.

7. (Previously Presented) The terminal service of Claim 6, wherein the display service includes a cursor shape service for describing the shape on an on-screen cursor, the cursor shape service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the cursor shape service.

8. (Previously Presented) The terminal service of Claim 6, wherein the display service includes a cursor position service for describing the position of an on-screen cursor, the cursor position service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the cursor position service.

9. (Previously Presented) The terminal service of Claim 6, wherein the display service includes a window service for describing a window, the window service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the window service.

10. (Previously Presented) The terminal service of Claim 9, wherein the display service includes a window list service for containing a list of window services appearing on a display, the window list service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the window list service.

11. (Previously Presented) The terminal service of Claim 10, wherein the display service includes a window update service for refreshing a window represented by a window service, the window update service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the window update service.

12. (Previously Presented) The terminal service of Claim 6, further comprising a keyboard service with a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the keyboard service.

13. (Previously Presented) The terminal service of Claim 12, wherein the keyboard service includes a data service for containing keyboard events generated by a keyboard, the data service being capable of responding to queries to remove keyboard events for processing.

14. (Previously Presented) The terminal service of Claim 6, further comprising a mouse service, the mouse service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the mouse service.

15. (Original) The terminal service of Claim 14, wherein the mouse service includes a data service for containing mouse events generated by a mouse, the data service being capable of responding to queries to remove mouse events for processing.

16. (Previously Presented) A computer-implemented method for processing input/output events by devices as services, the method comprising:

requesting a service representing a device for an input/output event, the service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the service, the unilateral contract expressed in a language specifying an order of messages that flow in or out of services;

receiving a customizable, tag-based message that contains the input/output event; and

requesting the service to remove the input/output event.

17. (Previously Presented) The method of Claim 16, further comprising requesting the service for creating a window, the act of creating a window creating a window service with a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the window service.

18. (Previously Presented) The method of Claim 17, further comprising requesting the service for refreshing the window, the act of requesting invoking a window update service that repaints the window.

19. (Previously Presented) The method of Claim 16, further comprising requesting the service to change a cursor shape, the act of requesting invoking a cursor shape service that changes the shape of the cursor.

20. (Previously Presented) The method of Claim 16, further comprising requesting the service to change a position of a cursor, the act of requesting invoking a cursor position service that changes the position of the cursor.

21. (Previously Presented) A computer-readable medium having computer-executable instructions for implementing a computer-implemented method for processing input/output events by devices as services, the method comprising:

requesting a service representing a device for an input/output event, the service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the service, wherein the one or more behaviors are described by behavior sentences, wherein the unilateral contract specifies an order of messages that flow in or out of services, wherein the unilateral contract is accepted when an external service promises to perform the unilateral contract according to the order of messages specified in the unilateral contract or when the external service performs the unilateral contract according to the order of messages specified in the unilateral contract, and wherein acceptance of the unilateral contract creates an instance of communication between services;

receiving a customizable, tag-based message that contains the input/output event; and

requesting the service to remove the input/output event.

22. (Previously Presented) The computer-readable medium of Claim 21, further comprising requesting the service for creating a window, the act of creating a window creating a window service with a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the window service.

23. (Previously Presented) The computer-readable medium of Claim 22, further comprising requesting the service for refreshing the window, the act of requesting invoking a window update service that repaints the window.

24. (Previously Presented) The computer-readable medium of Claim 21, further comprising requesting the service to change a cursor shape, the act of requesting invoking a cursor shape service that changes the shape of the cursor.

25. (Previously Presented) The computer-readable medium of Claim 21, further comprising requesting the service to change a position of a cursor, the act of requesting invoking a cursor position service that changes the position of the cursor.

26. (Previously Presented) In a networked system, a device that is a computer subsystem, comprising:

one or more services executing in the device, each service including a port identifiable by an identifier that includes a uniform resource identifier and a unilateral contract for describing one or more behaviors of the service, wherein the port associated with the service comprises behavioral types, and wherein the device communicates with another device of the networked system based on compatibility of behavioral types, the device being capable of coupling to the networked system to exchange customizable, tag-based messages.